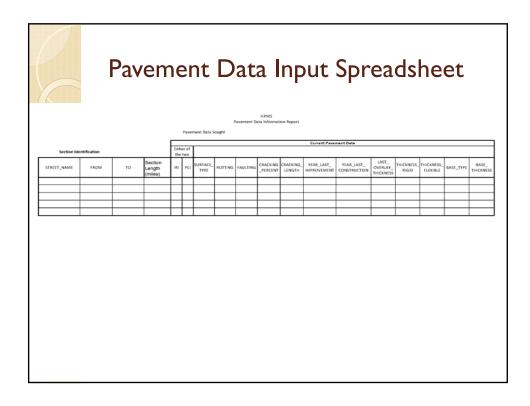
## HPMS Pavement Data Items

- I6 different pavement data items are sought (HPMS Field Manual Items 47-62)
- Used in nationwide pavement modeling and cost allocation studies and calculations



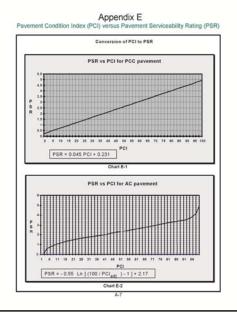
## Item 47 - IRI

- International Roughness Index.
- IRI should be measured on an annual cycle for all Principal Arterials

## Item 48 - PSR

- PSR Present Serviceability Rating
- Report PCI (Pavement Condition Index) if that is what you have and we will convert to PSR

# PCI to PSR conversion Table



## Item 49 – SURFACE TYPE

 Any change in the surface type is required to be reported after the initial reporting.

# Surface Types

#### Code Description

- I Unpaved
- 2 Bituminous
- 3 JPCP Jointed Plain Concrete Pavement
- 4 JRCP Jointed Reinforced concrete Pavement
- 5 CRCP Continuously Reinforced Concrete Pavement
- 6 AC Overlay over Existing AC Pavement
- 7 AC Overlay over Existing Jointed Concrete Pavement
- 8 AC (Bituminous Overlay over Existing CRCP)
- 9 Un-bonded Jointed Concrete Overlay on PCC Pavement
- 10 Bonded PCC Overlay on PCC Pavement
- II Other

### Item 50 - RUTTING

- Average depth of Rutting.
- Report average of both wheel paths.
- Report to the nearest .1 inch
- This data is to be collected on two year cycle.

#### Item 51 – FAULTING

(concrete pavements only - codes 23,4,9,10)

- The average vertical displacement (difference in elevation) between adjacent concrete joined panels in the direction of travel.
- Every joint should be measured and the average reported to the nearest .1 inch.
- This data is to be collected on two year cycle.

# Item 52 – CRACKING PERCENT (For AC & PCC pavements)

- Estimate percent area with fatigue type cracking for AC (asphalt concrete) pavements (typically in wheel path)
- Percent of slabs with cracking for PCC (Portland Cement Concrete pavements.)
- This data is to be collected on two year cycle.

#### Item 53 – CRACKING LENGTH

- Estimate of relative length in feet per mile (ft/mi) of transverse cracking for AC pavements and reflection cracking for composite pavements where AC is the top surface layer.
- · Consider cracks of at least 6 feet in length.
- Report in feet/mile

[(Accumulative Crack Length in feet/Surveyed Section Length in feet)\* 5,280]

This data is to be collected on two year cycle.

#### Item 54 – YEAR LAST IMPROVEMENT

- The year (completion date) in which the roadway surface was last improved.
- 0.5 inch or more compacted pavement material must be put in place for it to be considered a surface improvement.
- Report the best known year. Retain the coded improvement year until another improvement affecting the surface is completed.

#### **Item 55 - YEAR LAST CONSTRUCTION**

• The year in which the roadway was constructed or reconstructed. Report the best known year.

### **Item 56 - LAST OVERLAY THICKNESS**

- Thickness of the most recent pavement overlay to the nearest .5 inch
- An overlay is more than 0.5 inch in compacted thickness.

#### Item 57 - THICKNESS RIGID

(PCC pavement)

- Thickness of rigid pavement to the nearest .5 inch.
- The thickness should reflect the last improvement on the section.
- When an improvement is made, consider all new or redesigned base and pavement materials when determining the appropriate value.

#### Item 58 - THICKNESS FLEXIBLE

(AC pavement)

- Thickness of the flexible pavement to the nearest .5 inch.
- Report total thickness of all AC pavement layers
- If PCC has been overlaid on AC composite, report the AC layer thickness under it.
- If AC has been overlaid on PCC, report the AC layer on top.

## Item 59 - BASE TYPE

- The base pavement type.
- Base is everything between sub-grade and surface course.
- Use the code that best describes the layer immediately below the surface layer.

# **Base Types**

Code I 2 3	Description No Base Aggregate Asphalt or Cement Stabilized
5 6	Hot Mix AC (Bituminous) Lean concrete
7	Stabilized Open-graded Permeable
8	Fracture PCC

# **Item 60 – BASE THICKNESS**

- The thickness of the base pavement to the nearest inch.
- Base includes everything between subgrade and surface course.
- If there are several types of base, report total thickness of all base layers.

# Item - 61 Climate Zone and Item - 62 Soil Type

• FYI – These items will be populated by FHWA.